

Multi-channel video & audio fiber optic Transmission SOC-1304



Features

- Complies with EIA/TIA 250C Short-haul Studio Video & Audio Link Performance
- Single Mode Operation with Link Distance Exceeding 40 KM
- Full Dynamic Range - No Optical Power Selection Switch or Attenuators
- Advanced Digital Signal Processing for excellent Quality

SOC-1304 Multi-channel fiber optic video with stereo audio System is designed to meet or exceed EIA/TIA-250C Television Transmission Systems in Studio to Transmitter short-haul requirements. The SOC-1304 systems consists of a 1304T transmitter and an 1304R receiver in a 19" 1RU rack chassis.

The SOC-1304 systems provide simultaneous transmission of multiple channels of digitized 4 Video, 4 or 8 channel stereo audio over one fiber.

The SOC-1304 system features a digital fiber optic transmission technology, It is little or no maintenance, high functionality reliability, and low operating cost. The quality of video, audio transmission is much superior to the analog transmission (based on amplitude or frequency modulation) designs used by other manufacturers. No user adjustments are required in the SOC-1304 system, enabling quick setup and trouble-free operation.

SOC – 1304 Specifications

Video Specifications		
1	Frequency Response ($\pm 0.2\text{dB}$)	1KHz —6MHz
2	Signal-to-Noise Ratio (Weighted)	$\geq 67\text{dB}$
3	Differential Gain	$\leq 1\%$
4	Differential Phase	$\leq 0.7^\circ$
5	Luminance Non-Linearity	$\leq 1\%$
6	Line Time Distortion	$\leq 0.5\%$
7	Field Time Distortion	$\leq 1\%$
8	Insertion Gain	$0, \leq \pm 0.1\text{dB}$
9	C/Y Delay Inequality	$\leq \pm 10\text{ns}$
10	C/Y Inter-modulation	$\leq 1\%$
11	Chroma Non-Linearity Gain	$\leq 1\%$
12	Chroma Non-Linearity Phase	$\leq 1^\circ$
13	K-2T, K-PB	$\leq 0.5\%$
Audio Specifications		
1	Frequency Response (-0.4dB)	20 —20KHz
2	Total Harmonic Distortion	$\leq 0.1\%$
3	Signal-to-Noise Ratio (Weighted)	$\geq 72\text{dB}$
4	Cross Coupling A/B Channels	$\geq 70\text{dB}$
5	Gain A/B Channels (20 —20KHz)	$\leq 0.1\text{dB}$
6	Phase A/B Channels (20 —20KHz)	$\leq 0.5^\circ$
Optical Specifications		
1	Laser transmitter – single mode ,	1310nm 0dBm $\geq P_o \geq -10\text{dBm}$ 1550nm optional
2	InGaAs PIN/Pre-amp	Minimum input: $\leq -25\text{dBm}$
3	67dB Video SNR	$\leq -25\text{dBm}$
Other Specifications		
1	VIDEO	BNC, 75Ω Unbalanced, 1Vp-p
2	Audio	600Ω XLR
3	Chassis	19" 1U
4	Channel	4 Video channel 4 Audio channel (8 optional)
5	AC power	220 V/AC

* Specification subject to change without notice *